



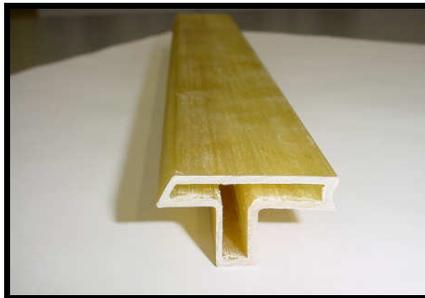
Custom Profiles

Fulcrum* Thermoplastic Composite Products are produced with a proprietary rigid engineering thermoplastic polyurethane matrix. The combination of ductile thermoplastic matrix with high strength continuous fibers results in excellent strength and stiffness combined with superior toughness. The resin offers excellent resistance to a broad range of chemicals, including acids, bases and organic liquids.

- **High strength and stiffness**
- **Excellent corrosion resistance**
- **Low weight**
- **Thermoformable**
- **High toughness**
- **Non-conductive**
- **Recyclable**
- **No VOC emissions**
- **Low thermal conductivity**
- **Easy to cut and fabricate**



Pultruded Fulcrum profiles can be manufactured in a wide variety of custom shapes. As with other pultrusion and extrusion processes creation of a new profile requires manufacturing a die. In many instances we are able to use our existing die bases and produce custom inserts for the new profile, thus reducing cost and time to sampling.



To discuss your requirements for any custom profile please call us.

The combination of Fulcrum with over-extrusion or co-extrusion adds an extra dimension of design freedom not available with other types of composite profiles. It allows the surface properties to be decided independent of the composite structure. Co-extrusion allows the insertion different elements within the structure for example to absorb or dissipate energy.

* Fulcrum is a trademark of Fulcrum Composites, Inc.

Tubes and Rods Data Sheet



- **Color**
- **Energy absorption**
- **Abrasion resistance**
- **Anti-static**
- **U/V stability**
- **Surface texture**
- **Soft touch**
- **Special effects**
- **Chemical resistance**

Typical Properties

Tube and rod properties can be varied based on glass loading and overcoat materials. Typical values are Flexural Modulus 5-6 million psi (34-41 GPa) and 100,000-150,000 psi (700-1000 MPa) Flexural Strength. For more detail see properties Technical Data Sheet. As with all composite products the performance in the final application is influenced by a number of factors including – load, duration, temperature, environment. Further data is available on the effects of these factors however it remains the responsibility of the end user to determine the suitability of these products under end use conditions.

Many standard products are also available.

Threaded Rod

Hollow Threaded Rod

U Bolts

Tubes and Rods



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